

10/528472

JC06 Rec'd PCT/PTO 21 MAR 2005

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appl. No. : PCT/US03/30632 Confirmation No. Not Assigned  
Applicant (s) : Kenneth A. Burdett, et al.  
Filed : Concurrently Herewith  
TC/A.U. : Not Assigned  
Examiner : Not Assigned  
Title : STABILIZATION OF OLEFIN METATHESIS PRODUCT MIXTURES

Docket No. : 62198A  
Customer No. : 00109

EXPRESS MAIL MAILING NO.: EV318534370US

DATE OF DEPOSIT: March 21, 2005

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

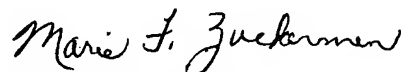
Sir:

INFORMATION DISCLOSURE STATEMENT

Pursuant to Applicant's duty of disclosure under 37 CFR §1.56, the Examiner's attention is directed to the information identified in the attached Form PTO 1449.

The cited U.S. patents and patent application publications are listed on the PTO-1449. A copy of the cited foreign patent documents and non-patent literature are enclosed herewith. The Examiner is requested to review each reference and formulate his/her own understanding thereof.

Respectfully submitted,



Marie F. Zuckerman  
Registration No. 31,315  
Phone: (203) 248-3907

P. O. Box 1967  
Midland, MI 48641-1967

MFZ:css

## INFORMATION DISCLOSURE STATEMENT

(Use Several Sheets if necessary)

ATTY DOCKET NO.

62198A

SERIAL NO.

10/528472

APPLICANT

Kenneth A. Burdett, et al.

FILING DATE

Concurrently herewith

GROUP

Not Assigned

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE IF APPROPRIATE
	4,545,941	10/08/1985	Rosenburg	260		
	4,560,792	12/24/1985	Banasiak	560		
	4,772,758	09/20/1988	Kaufhold	585		
	4,943,397	07/24/1990	Johnson	260		
	5,143,885	09/01/1992	Warwel et al.	502		
	5,218,131	06/08/1993	Warwel et al.	554		
	5,312,940	05/17/1994	Grubbs et al.	556		
	5,342,985	08/30/1994	Herrmann et al.	556		
	5,352,812	10/04/1994	Feldman et al.	554		
	5,539,060	07/23/1996	Tsunogae et al.	525		
	5,932,664	08/03/1999	Chen et al.	525		
	6,060,572	05/09/2000	Gillis et al.	526		
	6,156,692	12/05/2000	Nubel et al.	502		
	6,197,894	03/06/2001	Sunaga et al.	525		
	6,635,768 B1	10/21/2003	Herrmann et al.	548		

## FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION YES	NO
DD-A1-281594	08/1990	Germany (Abstract)			X	
DE 4107056 A1	09/1992	Germany			X	
DE 100 41 345	03/2002	Germany (Abstract)				X
EP-0 084 437 A1	07/1983	Europe				
EP-0 099 572 B2	02/1984	Europe				
EP-0 328 230	08/1989	Europe				
J 56 077243	06/1981	Japan (Abstract)				
J 03 066725A	03/1991	Japan (Abstract)				

## OTHER DISCLOSURES (Including Author, Title, Date, Pertinent Pages, Place of Publication, Etc.)

Ahn, Yu Mi et al., "A Convenient Method for the Efficient Removal of Ruthenium Byproducts Generated During Olefin Metathesis Reactions", ORGANIC LETTERS, Vol. 3, pp. 1411-1413 (2001)
Biermann, Ursula et al., "New Synthesis with Oils and Fats as Renewable Raw Materials for the Chemical Industry", ANGEWANDTE CHEMIE INT. ED., Vol. 39, pp. 2207-2224 (2000)
Buchowicz, W. et al., "Catalytic Activity and Selectivity of Ru(=CHPh)Cl <sub>2</sub> (PCy <sub>3</sub> ) <sub>2</sub> in the Metathesis of Linear Alkenes", JOURNAL OF MOLECULAR CATALYSIS A: CHEMICAL, Vol. 148, pp. 97-103 (1999)
Derwent Abstract, AN 1991-015326 (DD 281594)
Dowden, James et al., "Olefin Metathesis in Non-Degassed Solvent Using a Recyclable, Polymer Supported Alkylideneruthenium", CHEMICAL COMMUNICATIONS, pp. 37-38 (2001)
Gessler, Simon et al., "Synthesis and Metathesis Reactions of a Phosphine-Free Dihydroimidazole carbene Ruthenium Complex", TETRAHEDRON LETTERS, Vol. 41, pp. 9973-9976 (2000)
Kingsbury, Jason et al., "A Recyclable Ru-Based Metathesis Catalyst", JOURNAL OF THE AMERICAN CHEMICAL SOCIETY, Vol. 121, pp. 791-799 (1999)

EXAMINER

DATE CONSIDERED

\*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include a copy of this form with next communication to Applicant.

## INFORMATION DISCLOSURE STATEMENT

(Use Several Sheets if necessary)

ATTY DOCKET NO.

62198A

SERIAL NO.  
10/528472

APPLICANT

Kenneth A. Burdett, et al.

FILING DATE

Concurrently herewith

GROUP

Not Assigned

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE IF APPROPRIATE

## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION YES   NO
	WO 91/14665	10/1991	International			
	WO 93/20111	10/1993	International			
	WO 96/04289	02/1996	International			
	WO 97/06185	02/1997	International			
	WO 99/00397	01/1999	International			
	WO 99/22866	05/1999	International			
	WO 00/15339	03/2000	International			
	WO 00/58322	10/2000	International			
	WO 00/71554	11/2000	International			
	WO 02/076920	10/2002	International (Dow case 61071A WO)			
	WO 03/093215	11/2003	International (Dow case 61829A WO)			
	WO 04/30020	09/2004	International (Dow case 62937A WO)			

## OTHER DISCLOSURES (Including Author, Title, Date, Pertinent Pages, Place of Publication, Etc.)

	Mandelli, Dalmio et al., "Ethenolysis of Esters of Vegetable Oils: Effect of B <sub>2</sub> O <sub>3</sub> Addition to Re <sub>2</sub> O <sub>7</sub> /SiO <sub>2</sub> .Al <sub>2</sub> O <sub>3</sub> -SnBu <sub>4</sub> and CH <sub>3</sub> ReO <sub>3</sub> /SiO <sub>2</sub> .Al <sub>2</sub> O <sub>3</sub> Metathesis Catalysts", JOURNAL OF THE AMERICAN OIL CHEMICAL SOCIETY, Vol. 73, pp.229-232 (1996)
	Maynard, Heather et al., "Purification Technique for the Removal of Ruthenium from Olefin Metathesis Reaction Products", TETRAHEDRON LETTERS, Vol. 40, pp. 4137-4140 (1999)
	Nubel, P.O. et al., "A Convenient Catalyst System Employing RuCl <sub>3</sub> or RuBr <sub>3</sub> for Metathesis of Acyclic Olefins", JOURNAL OF MOLECULAR CATALYSIS A: CHEMICAL, Vol. 145, pp. 323-327 (1999)
	Paquette, Leo et al., "A Convenient Method for Removing All Highly-Colored Byproducts Generated During Olefin Metathesis Reactions", ORGANIC LETTERS, Vol. 2, pp. 1259-1261 (2000)
	Refvik, M.D. et al., "Ruthenium-Catalyzed Metathesis of Vegetable Oils", JOURNAL OF THE AMERICAN OIL CHEMICAL SOCIETY, Vol. 76, pp. 93-98 (1999)
	Warwel, Siegfried et al., "Polymers and Surfactants on the Basis of Renewable Resources", CHEMOSPHERE, Vol. 43, pp. 39-48 (2001)
	Yao, Qingwei, "A Soluble Polymer-Bound Ruthenium Carbene Complex: A Robust and Reusable Catalyst for Ring-Closing Olefin Metathesis", ANGEWANDTE CHEMIE INTL. ED., Vol. 39, pp. 3896-3898 (2000); (German version: Yao, Qingwei, "Ein löslicher, polymergebundener rutheniumcarbenkomplex: ein robuster und wiederverwendbarer Katalysator für Ringschluss-Olefinmetathesen", ANGEWANDTE CHEMIE, Vol. 112, pp. 4060-4063 (2000))
	"An Improved Process for the Synthesis of Unsaturated Alcohols", filed in the United States of America on October 9, 2003, Application Serial No. 60/509,908; Applicant; Bob R. Maughon et al. (Attorney Docket No. 62937)
	"An Improved Process for the Synthesis of Unsaturated Alcohols", filed in the United States of America on September 14, 2004, Application Serial No. 10/940,403; Applicant; Bob R. Maughon et al. (Attorney Docket No. 62937B)
	"Integrated Chemical Processes for Industrial Utilization of Seed Oils", filed in the United States of America on April 17, 2003, Application Serial No. 10/508,805; Applicant; Zenon Lysenko, et al. (Attorney Docket No. 61829A)
	"Metathesis of Unsaturated Fatty Acid Esters or Unsaturated Fatty Acids with Lower Olefins", filed in the United States of America on February 27, 2002, Application Serial No. 10/469,321; Applicant; Thomas H. Newman, et al. (Attorney Docket No. 61071A)

EXAMINER

DATE CONSIDERED

\*EXAMINER:

Initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include a copy of this form with next communication to Applicant.